

the

11350 - 11517

3 IN. x 5 IN. 90 SHEETS

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for return  
to

Arthur Cronquist  
New York Botanical Garden  
Bronx, N.Y. 10458.

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Scientific data, of  
no commercial value.

11350 = 9 May, 1976

Grand Co., Utah

With juniper, sagebrush  
and *Acacia* on a  
substrate of sandstone  
and pebbly conglomerate.

Shortly east of Harley  
Dome, in the first low  
hills ~~so~~ west of the Colo-  
rado state line. Trap  
195, R. 26E.

Bracts scarlet. Elevation ca  
1400-1450 m.

*Castilleja chromosa* A. Nels.

det. Noel H. Holmgren

*Castilleja* (P) v601

11351-9 May, 1976.

Grand Co. Idaho

Same place as 11350.

Stems solitary or occasionally paired.

Petals rather light pink or pink-lavender at first, soon turning white.

*Arabis pulchra* M. E. Jones ex S. Wats.

var. *pallens* M. E. Jones ✓

*Arabis pulchra* var. ④

11352-12 May, 1976.

Sevier Co., Utah. With  
sagebrush, *Atriplex*, and  
juniper in rocky clay  
soil over shale sub-  
strate, ~~Twp. 20 S., R 1 E.~~  
in low foothills ca

5 km east of ~~Reeds~~<sup>Axtell</sup>  
Twp. 20 S., R 1 E. Elev.  
ca 1600 m. Flowers  
pink.

*Phlox longifolia* Nutt.

var. *longifolia*

Phlox stans

(10)

11353 12 May, 1976

Searcy Co. Utah.

Same place as 11352.

Bracts ranging from  
 vermilion-red through  
 scarlet to crimson

*Castilleja chromosa* A. Nels.  
det. Noel H. Holmgren

*Castilleja* aff. *chromosa* D

11354 12 May, 1926.  
Sevier Co., Utah.

Around the edges of  
barren, seleniferous  
clay slopes, in foothills  
ca 5 km. east of Del Axtell.  
~~Long~~, Richmond. Tufts.

S.S.R. 1E. Elev. ca. 1600m.  
Leaves blue-green, appear  
glaucous. Pedicels  
1, prostrate. Wings of  
the fruit white to  
brownish.

Ulmopterus coulteri |  
(M.E. Jones) Mathis

Ulmopterus (6)

11355 12 May, 1976

Sevier Co., Utah.

Same place as 11354.

Growing with #11354,

*C. coulteri* (M. E. Jones) Mathies,  
but with brighter green,  
more dissected leaves,  
and more stiffly ascend-  
ing peduncles. Stamens on  
old flowers yellow.

*Cymopterus rosei*

M. E. Jones

*Cymopterus* ①

11356 12 May, 1976;  
7 June, 1976;  
Sevier Co., Utah. Along  
a north-trunking wash  
at the east foot of the  
mountains, ca. 19 km  
south-southwest of Emery,  
Twp. 23S., R. 5E., near corner  
of S. 27, 28, 33, 34. Elev.  
ca. 1950 m. Trees varying  
from narrow-headed to  
broad-headed. <sup>young</sup> Leaves glutin-  
ous and shiny green on  
both sides, varying in  
shape from as in *P. angusti-*  
*folia* to ~~widely~~ as in *P.*  
*Forrestii*. Lower

11356 (cont'd).

Primary style branches  
2, usually 3.

Hybrid name:

*Populus angustifolia* James

X

*P. fremontii* S. Wats.

✓

✓ /

*Populus "acuminata"* (5)

11357-12 May, 1976

Emery Co., Utah. Usually  
gentle slopes in ~~poor~~  
open piñon-juniper  
woodland on the north  
flank of the San Rafael  
River, ca. 28 km.

Southeast of Moore.

Twp. 225., R. 9E., S. 33.

Elev. ca. 2000 m.

Brownish milky  
red scarlet

✓  
*Castilleja scabrida* Eastw.

det. Noel H. Holmgren

*Castilleja* (10) C.

11353 - 13 May 1936

Evening is still cloudy  
becoming foggy, cloudy  
overcast in the Sun

below extra 2

km. east of Little

Flat top, a ~~butte~~

butte ca 30 km

as line north of

Hanover Co., Tex., 265.,

Range 13 E., S 14.

Elev. ca. 1600 m. Slopes.

Collected ~~shrub~~ shrubs ca  
4-6 feet tall.

*Quercus gambelii* Nutt. ✓

(11)

Others

1135 ; 13 May 1946

Wayne Co., W. Va.

In sandy soil of an old  
deciduous forest

Gravelly soil near river.

Aug. 28, 1945, Page 15

~~28~~ S. 5, ~~15~~

~~8~~

1700 m.

Leaves numerous  
obcordata to ovate  
and branching subulate  
Flowers blue. 1

Lupinus argenteus A. Nels.

Lupine 10

11360 13 May 1876

Wayne Co., Utah

Same place as 11359.

Stems numerous and  
loosely ascending from  
a taproot and branched  
much. Flowers  
pink-purple.

*Astragalus mollissimus* f.  
Torrey

var. *thompsoniae* (S.Wats.) Barneby

det. R.C. Barneby

*Astragalus mollissimus* (10)

11361 - 3 May 13, 1976

Wayne Co., Utah, USA

Flowers as 11359, Flowers  
light pink-lavender.

Pods ~~so~~ inflated,  
largely red-lavender.

*Astragalus ceramicus*  
sheld.

var. *ceramicus*

det. R. C. Barneby

*Astragalus* sp. Phaea ①

1362 13 May 1976

Wayne Co. Utah.

Sea level as 11359.

Flowers white.

July an plant bloom.

Dimorphocarpa wislizenii

(Engelm.) Rollins

Mustard ♂

11363-14 May, 1976

Wayne Co., Utah

in sandy soil of open  
fir and juniper wood-  
land 85 km. east  
of the Rockies.

Type 295, L. 165, ~~mm~~

S. 32. Elevation ca. 1900 m.

Payson well developed  
~~plantation~~ heads  
from ca. 13 to ca. 21,  
pink heads, mostly  
white above.

Townsendia (2) (5)

1304 - 14 May, 1976

Wayne Co., Utah,

Lower plateau 1163.

Flowers white

Phlox hoodii Richardson

var. canescens (T. & G.) M. E. Rock



Phlox hoodii (4)

11365 May 15 '12

Elkfield Co., Wyo.

In sandy soil between  
masses of sandstone.

600 m. The bottom  
of Flint Coal, about  
km. east and south  
of Coal River. Topo

305 S., R. 16 E., S. ~~26~~ 35

as 1900 m.

Plants - species com-  
monly. Stems numero-  
ous, loosely ascending  
from a central tuft  
not Bonner lavender;  
unpigmented purple.

1365 - could.

Astragalus nidularius  
Barneby

det. R. C. Barneby

✓

Astragalus 60

11366 - 10 May, 1976

Garfield Co., Utah.

In open piñon-juniper  
woodland on red sandstone  
substrate near the bottom  
of Flint Cove, ca 100 +  
m. above south of  
Yella River, Twp. 30 1/2  
S., R. 16 E., S. 36, Eden.  
c. 1800 m.

Flowers yellow

Lesquerella rectipes Wooton

Stansbury

Lesquerella

③

11367 - 14 May, 1926.  
Hinsdale Co., Utah.

Same place as 11366.

Leaves glaucous.

Petals dull purple

Streptanthus cordatus Nutt.

streptanthus ⑩

11368 - 14 May 1976

Garfield Co., Utah

Sandy soil in piñon-juniper  
woodland ca. 3 km north

of Tlapat - about 1000  
ft. above airline road to

Green River. Near  
the ~~south~~ south-  
corner of S 26, T 12  
30 $\frac{1}{2}$  S., R. 16 E. Elevation  
ca 1850 m. Plants

single-stemmed. Leaves  
somewhat glaucous. Flowers  
light yellow

*Caulanthus divaricatus* Rollins

all stages (?)

11369 14 May, 1976

Guadalupe Co., Texas

Base of a ~~cl~~ cassinis

Flowers purple.

Fol. lvs firm-inflated,  
strictly undecurrent.

Astragalus preussii A. Gray  
var. preussii

det. R. C. Barneby

Astragalus (3)

11370 14 May, 1976.

Garfield Co., Utah

sandy clay soil.

Altitude 6000 ft.

*Astragalus amphioxus*

A. Gray

var. amphioxus

✓

det. R.C. Barneby

*Astragalus* (D)

11371 - 14 May, 1936.

Garfield Co., Utah.

Sandy clay flats in

the upper foothills

west of Waterford

ca 110 km east-south

of Green River. Twp 315,

R. 16 E, S. 28 ~~xx~~ E. elev.

ca 1600 m. Tops white

with a yellow golden

glow

Zygadenus paniculatus S. Wats.

Zygadenus

④

11372 14 May, 1976

Garfield Co. Utah.

Juniper - Collected just  
below sandstone cliff  
of Black Ledge, ca 110 km.  
airline south of Green River.

Twp. 32 S., R. 16 E., S. 5<sup>5</sup>

Elev. ca 1600 m.

Flowers pale lavender.

Allium macropetalum  
+ R. 16 E.

Allium <sup>10</sup>campanulatum

11373 15 May, 1976

Garfield Co., Utah  
Sandy soil below talus  
Cordilleran cliff in  
scrubby - prairie - grassland  
Collegiate community  
is 10 km. west  
south of Green River.

Twp. 31S, R 16E, S 8

Elev. ca 1650 m

Plants spreading by long,  
slender, tuberous roots  
spars. Petals white,  
attenuate,

Oenothera caespitosa Nutt.  
var. jonesii Munz

Oenothera (3) ✓

11373 15 May 1932

Kingsford C. Wilson

Same place as 11373

Flowers yellow

*Physaria australis* (Payson)

Rollins

✓

Physaria (8)

1175 15 May, 1926

Mofield Co., Utah

Same place as 11373.

Leaves pale yellow.

Flowers, tinged with  
blue, purple toward  
the center with a blue  
band purple.

Asclepias cryptoceras

S. Wats.

var. cryptoceras

1

Asclepias

②

v

11376-13 May 1976

Garfield Co., Utah Sandy soil in

Big-juniper-coyote  
zone, ca 1200 m. altitude

south of Green River

Twp 32 S., R. 15 E., S. 36.

Alt. ca 1600 m. Stems

numerous on a short tap-

root and branching caudate.

Flowers pale, ochraceous  
except for the dark purple  
tips of the keel.

*Aster prae longus* Sheld.

var. *prae longus*

det. R. C. Barneby

*Aster prae longus*

(5)

11377 15 May, 1972

Collega Garden Mo.

Coleogyne desert wunder

near the desert stand

stone cliffs, shortly  
north of the Colorado

River 1 year and ca  
125 km. airline south of Green  
River, Twp. 37 $\frac{1}{2}$  S., R. 15 E.

Elev. ca 1400 m.

Plants annual. Flowers

blue purple, the ~~back~~

lower with a central  
white spot.

*Lupinus pusillus* Poir.  
var. *rubens* (Rydb.)

Leptos.

① D

6

11378-15 May, 1976.

Garfield Co., Utah.

Same place as 11377.

Gland-appendages white  
or slightly pinkish,  
sometimes 5 and sym-  
metrically arranged, but  
often one reduced or  
wanting, the fruit hang-  
ing out through the gaps.  
Petaloid perianth.

*Euphorbia Fendleri* T. & G.

✓

*Euphorbia*

44

11377 15 May 1936

Hopfield Co. Utah

Same place as 11377.

Reunited with woody-  
fibrous roots. Upper  
petals white, the  
lower & otherwise  
blue-purple.

*Delphinium scaposum*

Greene

Leptos. 1 ⑥

11380 - 15 May, 1976.

Gastfield Co., W. Va.

Same place as 11377.

Corolla distinctly  
funnel form, rather  
than salverform,  
white with small  
yellow eyes.  
Nuts deeply rugose-reticu-  
late on both dorsal and  
ventral surfaces, with a  
long, wide-open scar bounded  
by a raised rim.

*Cryptantha tenuis* (Eastw.)

Payson

*Cryptantha* ⑤

11381 15 May, 1976

Garfield Co., Idaho

Sandy soil in Coleogyne  
zone below ~~for~~ massive  
Sandstone cliffs ~~about~~  
shortly north of the  
Idaho River Canyon  
and ca 125 km. air line  
soil. Boise River. Top. 32 $\frac{1}{2}$ 6.

K. 15 E. N. Elevation 1400 m.

Fls. yellow, 5 cys

3-14, 1-1.5 cm. long

*Hymenoxys leptoclada*

(A. Gray)

✓

*Hymenoxys leptoclada*

11382 - 15 May 1936.

Garfield Co. Utah.

Same place as 11381.

Banner lavender;  
wings and keel rich  
~~few~~ pink purple.

*Astragalus*

*monumentalis* Barnaby

det. N. C. Barneby,

*Astragalus* 9

(10)

11333 - 15 May, 1976

Garfield Co., Utah

Laybrush zone below  
massive Sandstone cliffs  
shortly north of the  
Colorado River Canyon,  
ca 130 km above mouth  
of the river.

Twp. 33 S., R 14 E., S. 1.

Elev. ca. 1400 m.

Branching shrubs up to 5  
or 6 ft. tall. Rays (15)

18-22 (23), lavender, 13-20 mm <sup>long</sup>

Moehringia <sup>anthora</sup> tortifolia (T & G.) Gray <sup>var.</sup>

var. imberbis Cronq.

W. Moehringia tortifolia  
var. imberbis (?)

11384-17 May, 1976

Emery Co., Utah

dry, hard, shallow, clay  
much interbedded with  
airline

16 ~~17~~ <sup>16</sup> east of Castle  
Dome. Twp. 19S., R. 10E.,  
about S. 7 or 8.

Elev. ca. 1700 m.

in a river and sandy  
soil, dry, scattered  
scrubby and branching  
shrub. Flowers obscured  
Faint ~~odor~~?

Astragalus flavus Nutt.

var. flavus

det. R.C. Barnaby

Astragalus (10)

11385 17 May, 1976.

Butte Co. Idaho.

Clayey limestone

Lyonsville Aspinwall

and bunchgrass <sup>in Franklin Canyon</sup> ca. 5 km.

between ~~the~~ <sup>in</sup> Nine Mile Can.

Yan and ca. 40 km westward

south of ~~Winton~~ Winton, Idaho.

11S., R. 16E., S. 26

Elev. ca 1650 m. 215

Plants single stemmed.  
Herbage glaucous. Petals  
very pale lavender blue  
with a little <sup>more</sup> blue  
colored.

Pods erect to curved-  
spreading

*Thelypodopsis* ✓  
*wyomingensis* (A. Nels.) Rydb.

Arch. 1)

*Cryptantha flaccidula* (A. Nels.)  
11386 - 17 May, 1936 <sup>Peyson</sup>  
Duchesne Co., Utah  
Dune clay, gravelly soil on  
calcareous sandstone substrate  
in ~~the~~ <sup>the</sup> beach grass  
(along sand wash)  
elevation 7100 ft. 35 sec.  
residue southeast of Biggar  
Twp. 11 S., Range 17 E.,  
about S. 15° E. sec. ca.  
200 m. ~~Stems~~ clustered  
anastomosing and branching  
nudex. Corolla ~~salverform~~  
with a flat, white (in age  
velvety) limb and an  
evident yellow eye. Maturing  
petals evidently raised, particularly on  
both sides; scar with an elevated margin  
with ~~petals~~ hairs at top

11387-17 May, 1976.

Duchesne Co., Utah

Along the bottom of a  
sandy-gravelly dry wash  
leading into Sand Wash, in  
sagebrush-bunchgrass  
country ca 35 km. northeast  
northeast of Dayton, Utah.

115° 10' 07" E., about S. 15°.

Elev. ca. ~~1400~~<sup>1700</sup> m. Stems numerous,  
curved-ascending from taproot and  
branching complex. Flowers  
blue-purple, the lower  
petals a large central pale spot.

Lupinus wyethii S. Wats.

Lupinus (10)

11388 - 18 May, 1976

Blaine Co., Wash. Sandy  
gravelly slopes on shaly  
sandstone substrate in  
Sagebrush-bunchgrass  
community along Sand  
Wash, ca 35 km. airline  
southeast of Dayton.

Twp. 11 S., Range 17 E.,  
about S. 15. Elev. ca.  
1700 m.

Flowers light pink

Phlox longistylis Nutt.  
var. longistylis

Phlox longistylis ⑥

11389-18 May, 1976

Duchesne Co., Utah.

Same place as 11388.

Petals ~~white~~ <sup>white</sup> obovate,  
white, withering  
pink:

*Oenothera caespitosa*

N. 17.

var. *jonesii* Münz ✓

*Oenothera* cf. *caespitosa* (6)

11310 - 18 May 1926

Locality No. 11388

Mount Shasta.

1750 m. Bracts  
 vermilion red to  
 scarlet.

Castilleja chromosa

A. Nels.

det. Noel H. Holmgren

Castilleja

91

10

11391. 18 May, 1976 -

Same place as 11388.

Flowers rich pink-purple

Astragalus

chamaeleuce A. Gray

det. R. C. Barneby

✓

Astragalus ~~sp~~

4

11392-18 May, 1976

Duchesne Co., Utah. In gravelly  
soil overlying shaly limestone  
substrate in sagebrush-  
-brushgrass community,  
along Sand Wash, ca. 35  
km. southeast of Kamas,  
Twp. 11 S., R. 17 E., about 5  
15 elev. ca 1700 m.

Perennials spreading and becoming  
colonial by long, slender,  
horizontal roots. Herbage  
glauous. Flowers yellow  
Schoenocrambe liliifolia

Gregory

Schonocrambe (2)

11393-18 May, 1976.

Duchesne Co., Utah.

Same place as 11392.

Stems clustered on a  
taproot and branching  
several. Flowers white,  
incapacitously marked  
with purple.

*Oxytropis sericea* Nutt.  
det R.C. Barneby

*Oxytropis* (5)

218

11394-20 May 1976

Jefferson Co. Co.

With 2 species new

Gravelly clay slopes  
along a headwater  
ca. 11 km southeast of  
Lander Twp. 2 S, R.  
24 E. S. 5 or 7.

Elev. ca. 1550 m.

Fls. white, on 7 heads  
33, 46, 49, 71,  
36, 53, 76 in number.

*Eriogonum engelmannii* A. Nels.

var. *engelmannii* ✓

*Eriogonum engelmannii*

10

11375 20 May 1976.  
Wasatch Co., Utah.

Lanceolate and 11375  
Petals white to deep  
pink-lavender, with  
a silvered crescent  
near the top of the  
yellow basal area.

Calochortus nuttallii

T. & G.

Whitney

(5)

11396 - 20 May 1976

Mintak Co., Utah. Rocky  
slopes, about where  
D. C. Smith's grassway to  
triples and ~~for~~ Sarcoc-  
alisthes low. ca 1120m  
southeast of Jewett Top.  
25. R. 24 E. S. 5 or 7.  
Elev. ca 1550m.

Flowers white

Allium textile

Match ✓

Allium textile ⑥

11387 - 22 May 1936

Jefferson Co., Idaho. With  
scattered junipers.  
In sandy soil  
25' above  
the mouth of  
the river.

July 26, 1936.

Alt. 1600 m.

Penstemon fremontii Turr. & Gray

det. Noel H. Holmgren

Penstemon

7

11398 20 May 1926

Clinton Co., W. Va.

Same place as 11392.

Flowers notably smaller  
than 11392. Flowers

yellow-white with  
a yellow edge. Only one  
or two nutlets maturing.

Mature nutlet evidently  
larger to barely shorter  
than style, strangely  
nugget ~~small~~ dorsally,  
more tuberculate ventrally.

*Cryptantha humilis* (A. C. Gray) Payson  
var. *nana* (Eastwood)

*Cryptantha*

11399 - 20 May, 1936

Uintah Co., Utah.

Sample #11399.

Leaves blue-glossy,  
soft and brittle.  
Flowers yellow.

*Cymopterus duchesnensis*

M. E. Jones

*Cymopterus* (6)

11400 - 20 May, 1976

Uintah Co., Utah

Same place as 11393.

Leaves green, not glaucous.

Flowers yellow.

Cymopterus purpuratus

S. Wats.

✓

May 20, 1976, 11400 (5)

~~11401~~ 11401 - 20 May, 1976.

Minot Co., N.D.

Same place as 11397.

Fl Aging flowers white  
or ochroleucous  
with a purple-tipped  
keel.

Astragalus purshii Dougl.  
var. purshii

det R.C. Barneby

Astragalus (7)

11472 20 May, 1976.

Minot Co., Idaho.

Sample No. ~~1377~~ 1377.

Flowers yellow.

Physcia australis ✓  
(Payson) Rollins

Physcia (10)

11403 - 20 May, 1932.

Utah Co., Utah.

Same place as 11397.

Plants very densely  
caespitose on a coarse,  
woolly taproot. Heads  
yellow. Rays (6-) 8 (-11).

*Haploppappus armerioides*

(Nutt.) A. Gray

*Haploppappus armerioides* (5)

11404 - 21 May, 1976  
Clintch Co., Utah.  
Along a shaly sandstone  
ridge in the Ogallala  
in a country ca 7-8  
km south of Cliff Ridge  
and ca 40 km. east  
of Cedar & Mineral Twp.  
15, R. 25E., ca. S. 19. Elev.  
ca. 1600 m. Rags white,  
18-24, often 21

*Machaeranthera venusta* /  
(M. E. Jones) Cronquist  
(8)

11405 - 21 May, 1976

Mineral Co., Utah

In sandy soil of shallow  
draw in sagebrush

Country - - - as in 11404.

Flowers dark blue or  
sometimes purple, the  
inner petals somewhat  
paler, heavily blue lined  
on light background

Stem very delicately attached  
to the cluster of short,  
thickened-thickened roots

Delphinium nelsonianum Pritzel

ex Willpers

Delphinium

(10)

✓

11406 21 May, 1976

Wirtsh Co., Waho

Leaves lanceolate 4-5 cm  
Rays ca 12-22, light  
pinkish, nearly white.

Townsendia incana Nutt.

✓

✓

Townsendia

11407 - 21 May, 1976.

Same place as 11404.

Flowers pink-purple.

Astragalus chamaeleon

A. Gray

det. R. C. Barneby

✓ V

Astragalus (5)

11438 21 May, 1916

Same place as 11404.

Flowers light yellow,  
fading to semidivided  
in age.

Lychnis Fendleri

D. Gray

✓

391

Lychnis Fendleri 4

17409-23. May, 1976

Emery Co., Utah. Sandy,  
gravelly soil in pinyon-  
-juniper woodland on the  
San Rafael Swell south  
of Eagle Canyon, ca 25 km.  
airline southeast of

Moore. Twp. 225, R. 9 E., S. 33.

Elev. ca. 2100 m. Rays  
on 12 heads 28, 32, 35, 38,  
39, 39, 40, 40, 42, 55, 56,  
60, blue-lavender or  
nearly white.

*Erigeron pumilus* Nutt.

*Suaeda concinnaoides* Grong.

*Vancondalia condensata* (P.C. Eat.)

Grong. ⑪

*Ericameria pumilus* ? condensata

11410 - 23 May, 1976

Eureka Co., Utah.

Same place as 11409

Scapules solitary to  
several or numerous.

Heads yellow. Rays  
mostly ca 13, seldom  
as few as 8.

Hymenoxys acaulis (Pursh)

K.T. Parker

var. arizonica (Gray)

K.T. Parker

Hymenoxys acaulis (10)

11411-23 May, 1946.

Idaho Co., Idaho.

Same place as 114109.

Flowers white, with  
a yellow eye. Stems  
clustered, ascending.

Yutlets rugose-tuberculate  
on both sides, the long,  
open scar with a con-  
striction below the  
middle and bordered by a  
raised rim.

v

*Cryptantha Flavoculata*

(A. Nels.) Parson

*Cryptantha* (10)

11412 - 23 May, 1976

Eugeney Co., Utah,

Same place as 11409.

Leaves numerous, closely  
clustered, short.

Flowers yellow.

*Lesquerella alpina* (Nutt.)

S. Wats.

var. *alpina*

(10)

11413-23 May, 1976

Emery Co., Utah

Stems few, rather  
widely ascending.

Flowers yellow

Desnopl 114.09

Lesquerella kingii S. Wats.  
subsp. latifolia (A. Nels.) ✓

Rollins & Shaw

large Lesquerella (2)

11414 - 23 May, 1976

Eriway Co., Utah

Same place as 11409.

Fls. white above,  
pinkish beneath,  
mostly cal. 13, ranging  
downward to a  
minimum of 8.

Townsendia incana Nutt.

✓

Townsendia (4)

11415-23 May, 1976  
Tinney Co., Ulster,

Same place as 11409.

Flowers pinkish.

Plants mostly not  
flowering this year.

*Chamaelazia*

*scapo-aestuosa* Rydb.

✓

*Chamaelazia* (2)

11416 - 23 May, 1936.  
Emery Co., Utah

Same place as 11409.

Flowers lavender,  
the banner with a  
central pale spot.  
Pods thick-walled, with  
a small central cavity.

Astragalus cymboides

M.E. Jones ✓

det P.C. Barneby

Astragalus

6

11417. 24 May, 1976

Emery Co., Utah. In sandy  
clay soil with scattered  
gravelly elongate root  
less ridge just north of  
South Salt Wash,  
220 km. air line  
southeast of Moab, U.S.A.  
225 E. S.E., S. 20. E. 60°

ca. 1850 m. Corolla limb  
white with a yellow eye,  
relatively large 12-15 mm.  
wide. Submarginal nectals  
smooth and shining,  
tending to be slightly  
separated at the

Sharp margins.

✓

Cryptantha johnstonii

Higgins

14.

10

Cryptantha aff. jameae

11418. 24 May, 1936.

Sanpete Co., Utah. Shaly, sandy clay gentle slopes with *Atriplex*, *Artocarpus*, and *Ephedra* just north of Pleasant Salt Wash growing in 1817.

Leaves entire, to evidently pinnatifid.  
Flowers white.

*Silia congesta* Hook.

var. *congesta*, passing to  
var. *frutescens* (Kyd b.) Grong.

*Silia* (10)

11419 - 24 May, 1976

Esmeralda Co., Idaho

Same place as 11418

*Astragalus mesiniensis*

M. E. Jones

det. R. C. Barneby

✓

*Astragalus* ②

11420 - May, 1975.

Energy Co. W.L. on  
barren shaly clay  
slopes with scattered  
*Artemisia*, *Atriplex*, and  
*Ephedra*, just northeast of  
South Salt Wash, ca 20  
m. airline southeast of  
Mesa Top 225, R. 6E, S. 14.  
Elev. ca 1800 m. Plants  
moderately aromatic. Corolla  
pale lavender, the  
ejected filaments more  
strongly lavender-purple.

*Phacelia crenulata* Torr., ssp. lat.  
(*P. refaciens* Atwood)

## Uvacia (anomala) 10

11421-24 May, 1976.  
Emery Co., Utah. In  
shallow washes in  
barren clay hills with  
with scattered Artemis-  
ia, Atriplex, and Ephedra  
--- as in 1970. Leaves  
~~blue~~ blue glaucous.  
Lower achroleucous, the  
wings and keel lower  
purple.

*Astragalus asclepiadooides*  
M. E. Jones  
det. R. C. Barneby /

*Astragalus asclepiadooides* ⑩

11422-24 May, 1976

Emery Co., Utah. Same

place as 11420. Stems  
densely clustered on a  
coarse, woody taproot  
and branching caudex.

Leaves blue-glossous,  
blades 4, yellowish,  
toothed across the other-  
wise truncate tip, the  
3 marginal teeth the  
largest.

*Euphorbia palmeri* Engelm.

var. *subspuraria* (Engelm.) L. C. Wheeler  
Wheeler

*Euphorbia* (5) (10) ✓

11425 24 May, 1976.

Emery Co., Utah Basin

clay slopes and flats

below Coal Cliff,

ca 5 km distance

southeast of Moen.

Trips 21 or 225, 12

7 E. Elev. ca 1850 m.

Herbage somewhat

grasses. Flowers

light yellow. Talls

short to widely spreading

Caulanthus divaricatus Rollins

aff stanleyi (4) ✓

11626 25 May, 1936

Grand Co., Utah.

Abundant in clay soil  
between halves of  
Interstate Highway 70,  
in valley, ca 88 km. by road east  
of Green River, in striped  
plant. Plants abundant at  
this station, but not  
so outside the highway  
right of way, Green

Twp. 20 S. 1/4 E. Elev. ca

1350. *Penstemon moffatii*  
Eastw. var. *moffatii*

*Penstemon*

(10) det Noel  
H. Holmgren

11432 - 25 Aug 1954  
Mesa Co., Colorado  
Canyon of Atjupie - Sat  
at 11,000' just east  
of West Salt Lake  
13 km. northeast of  
Mt. of the Holy Cross

~~11,000' - 25 Aug 1954~~  
Twp. 9S., R. 10 4W. 2 mi.  
ca. 14,000'.

Flowers bright white.  
Bracts dull pinkish or  
whitish

Abronia elliptica A. Nels.

Abronia

11

11428. 25 May, 1931.

Wyo Co., Colorado Along

a dry wash in Atwood -

Scorobatus desert just

east of West Gold Creek,

ca 5 km. <sup>SW</sup> of the last

11428. Top 95, R 104 W.

Elev. ca. 1400 m.

Openly branched spring

about as tall, to 1

Flowers yellow.

Tetradymia spinosa Hook. &

Arn.

Tetradymia. ③

11429 - 25 May, 1976

Uva Constricta. Same

place as 11428. Flowers  
white with a yellow eye.

Nettles narrow, sharply  
marginated, strongly  
rugose-reticulate on  
the back, somewhat less  
so ventrally, and with  
an elongate, ventrally  
closed scar.

Cryptantha elata (Castrov.)

Payer

Cryptantha (3)

1430 - 25 May, 1976

Mesa Co., Colorado

~~Alpine~~ Alpine and

subalpine in a valley of  
hills just west of  
Mesa City, Colorado.

middle northeast slope.

Top, 8500', R. 104.1, sec.

5200' in a cañon.

Corolla pink with the  
flanks yellow.

Gilia inconspicua (Smith)

Sweet,

sens. lat.

Gilia

(10)

1143/ 25 May 1936.

Mexico, Colima.

Specimen No. 11430.

Flowers yellow.

Cymopterus Fendleri A. Gray

✓

Cymopterus (10)

11432 - 25 May, 1971

Mesa Co., Colorado

Same place as 1955

Flowers double width

and whitish.

Especially on moist  
soil and elliptical  
bracts common.  
not branched.

Allium nevadense, S. Wats.

Allium nevadense ✓

Allium ~~A~~ ⑩

11433 - 25 May, 1976  
Picea Co., Colorado

Stems numerous in  
a stout clump.

Flowers cilioluccous.

Flowers with a hairy  
calyx. Pedicels  
hairy pendulous on  
pediculate pedicels.

*Astragalus convallarius*

Greene

var. *convallarius* ✓

det. R. C. Barneby

*Astragalus* (10)

11434 - 25 May, 1976

Mesa Co., Colorado

Same place as 11433.

Stems slender, hairless  
stout especially at  
the flower. Wings  
and keel rather deep  
purple, the banner a  
little paler.

Astragalus asclepiadooides

M.E. Jones

det. R.C. Barneby

Astragalus, 5

11435. 25 May, 1976

Mesa Co., Colorado

Specimen 11435.

Chaenactis stenolepis.

Chaenactis stenolepis H. & A.

Character: (25)

11436 25 May, 1976.

Mesa Co., Colorado.

Same place as 11430.

Bracts scarlet.

*Castilleja chromosa*

A. Nels.

det. Noel H. Holmgren

*Castilleja* (?)

11437 - 25 May, 1976.

Mesa Co., Colorado

~~Leucophysa luteola~~

Rays ca 13, perihelio

Perihelio case with

white line

Townsendia incana Nutt.

Townsendia (2)

11438 - 25 May, 1976

Mesa Co., Colorado

Same place as 11430.

Plants initiated in  
large plants, but  
not in small ones.  
Flowers with high  
"true" involucels  
4-lobed! ✓

*Eriogonum inflatum*

Torrey & Fremont

var. *fusiforme* (small)

Reveal

*Eriogonum inflatum* (?)

11439-26 May, 1976

Wyo. Co., Colorado. Rocky,

slopes, with  
scattered *Atriplex*, just  
west of West Salt Creek,  
ca 16 km. airline north-  
west of Mech. Twp. 85,  
E. 104th, ca. S. 27. Elev.

ca. 1450 m. Plants  
single-stemmed from a  
taproot, rhizomatous.  
*Corolla* blue; anthers and  
style faintly lavender,  
*Cirsium neomexicanum* ? Gray

*Cirsium* (5) 10. m. 20. 21.

11440-26 May, 1976.  
Mesa Co., Colo. With  
scattered *Artemisia* and  
*Astragalus* on open,  
gravelly clay slopes  
and small gullies just west  
of West Salt Creek, ca.  
16 km. airline north-  
west of Mech. Twp. 8 S.,  
R. 104 W., ca. S. 27. Elev.  
ca. 1450 m. Petals white  
with lavender-pink,  
with a slim red center  
near the top of the pet.  
Lvs basal and few  
terminal, slender

than high.

✓  
Calochortus nuttallii  
T, f G.

C -

Calochortus ⑩

11441 - 26 May, 1976  
Mesa Co., Colorado.

With scattered *Atriplex*  
and *Sarcobatus* on clay  
benches just west of  
West Salt Creek, ca 16 km.  
airline northwest  $\frac{7}{8}$  -  
Mack. Top. 8 S., R. 104 W., ca.  
S. 27. Elev. ca. 1450 m.

Plants extensively creep-  
ing below ground. Flowers  
3-14, pink to rich pink -  
purple, rarely white.  
*Lysimachia grandiflora*  
(Nutt.) T. & G. ✓

*Lysimachia grand. (O)*

11442 - 26 May, 1926.

Clear Co., Colo. With

~~Penstemon~~ ~~trifoliate~~ on  
gravely clay slopes just  
west of West Laramie.

in ~~limestone~~ north  
west of ~~Wash.~~ ~~527354~~

527352 m. Flowers  
blue-purple

Penstemon moffatii Eastw.

var. moffatii

det. Noel H. Holmgren

Penstemon ④

11443-26 May, 1976

Wyo. Co., Colorado. Open,  
gravelly clay slopes  
with scattered shrubs,  
part out of salt  
marshes in 1968.

Plants forming small to  
large clumps crowded  
together. Heads yellow.  
Rays: ca. 8-13.

Bahia nudicaulis A. Gray

Bahia nudicaulis (?)

11444 - 26 May, 1936.

Yampa Co., Colorado.

With scattered Atropis  
on barren clay slopes  
just west of West Salt  
Lake - no. 11442.

Range white to pale lavender,  
34-54 (3 counts).

Erigeron pulcherrimus Heller  
var. wyomingia (Rydb.) Cronq. ✓

Erigeron pulcherrimus (D)

11445 - 26 May, 1936.

Mesa Co., Colorado.

Same place as 11444.

Flowers ochroaceous  
to nearly white,  
the keel with a  
purple internal spot  
on each side near the  
tip.

Astragalus Flavus Nutt.

var. flavus

det R. C. Barneby ✓

Disturbed soil Crimino ⑥

11446 - 26 May, 1976.

Maes Co., Colorado.

With scattered Atriplex  
salicornia clay soil  
- tops just west of West  
Pettibone in Colo.

Petals ~~yellow~~ white.

Astropelous glands  
conspicuous, yellow

Arenaria eastwoodiae Rydb.

var. eastwoodiae

1

Arenaria

(10)

11447-26 May, 1976.

Mesa Co., Colorado. On

barren clay slopes in  
altiplano 3000 feet  
SE west of West Salt  
Creek. as in 11442.  
Fls. yellow.

Oenothera scapoidea

T. + G.

var. scapoidea

Oenothera 7

11448 - 26 May, 1976

Mesa Co., Colorado. With  
scattered *Atriplex* on  
barren, gravelly clay  
slopes just west of West  
Salt Creek. as in ~~11447~~

11442. Perianth pinkish  
to nearly white.

*Eriogonum bicolor*

M.E. Jones

*Eriogonum* (3)

11449-26 May, 1976.

Mesa Co., Colorado.

Barren gravelly clay  
slopes with scattered  
Atriplex, just west of  
West Salt Creek. -

in 114402.

Flowers pink-purple.

*Astragalus amphioxus*

A. Gray

var. *vespertinus* (Sheld.)

M. E. Jones

det. R. C. Barneby

*Astragalus* 6

11450-26 May, 1976

Rio Blanco Co., Colorado.

In pinyon-juniper wood-  
land on northeast-facing  
sandstone slope overlooking  
gullied Evacuation Creek,  
ca. 55 ha. airline north  
of Mech. Twp. 45, R. 102  
W., ca. 5.19. Elv. ca. 1900 m.  
Flowers white

Androsace septentrionalis L.  
sens. lat. ✓

Androsace

6

11451-27 May, 1976

Rio Blanco Co., Colorado

On clay embankment  
~~with~~ of West Evac-  
ation Creek, with  
*Artemisia*, *Chrysanthemum*,  
and *Lactuca*, ca. 55' elev.,  
across north of creek. Top  
is S. & 103 W., & ca. S. 19.  
Elev. ca. 1900 m. Herbage  
glucous. Flowers  
blue purple. ✓

*Penstemon osterhoutii* Pennell  
det. Noel H. Holmgren

*Penstemon* ①

11452 27 May, 1926

Rio Blanco Co., Colorado.

Same place as 11450.

Corolla white with a yellow eye. Nutlets strongly tuberculate, more reticulate on both sides; scar open, with a strongly raised border, slightly constricted below the middle.

Cryptantha flavoculata  
(A. Nels.) Heyse

Cryptantha 7

11453 - 27 May, 1976.

Rio Blanco Co., Colo.

Same place as 11450.

Plants forming loose  
mats from an acaulescent  
rhizome. Leaves perigonial  
Corolla white to pink,  
often white with a  
small pink eye.

Phlox austromontana Benth.

Phlox 10

114451 27 May 1976.

Kiowa County, Colorado.

Same place as 114450.

Rayon mostly 10-16,  
white or pinkish

*Townsendia mersana* M.E. Jones

var. *mersana*

✓

*Townsendia* (2)

11677 - 27 May, 1976

Rio Blanco Co., Colorado.

Same place as 116150.

Flowers lavender - purple.

Arabis crandallii B.L. Robinson

Arabis (10) <sup>H<sup>a</sup></sup>

11-1-27 May, 1976

Wintah Co., Idaho.

With scattered junipers  
and sagebrush along an  
open, sandy ridge  
just east of Elevation  
line and just south  
of Park Canyon, ca ~~23~~<sup>23</sup> km  
airline south of Bonanza.

Twp. 11 S., R. 25 E. - S. 28.

Elev. ca. 1700 m. Flowers  
glucious. Flowers blue.

*Penstemon osterhautii* Pennell

det. Noel H. Holmgren

*Penstemon*

(5) (10)

11457 - 27 May, 1976.

Blount Co., W. Va.

Same place as 11456.

Flowers yellow.

*Lesquerella alpina* (Nutt.)

S. Wats.

var. *alpina*

*Lesquerella* 3

11458 - 27 May, 1976

Uinta Co., Utah

With sagebrush on a hilly  
gentle slopes just east of  
Excavation Creek and  
just south of Park

Upper, ca. 2<sup>3</sup>/<sub>4</sub> km. air line  
southeast  
of ~~town~~ of Bowerbank.

Twp. 11 S., R. 25 E. ~~at~~ S. 28.  
Elev. ca 1650 m.

Ridge 16, white to  
pinkish.

Townsendia incana Nutt.

T. incana (10)

115-1. 27 May, 1976. Uintah  
Co., Utah - Open, sandy flats  
in sagebrush zone, ca  
3 km east of <sup>YAC</sup> ~~the~~ ~~valley~~  
Creek and 2 km north  
of Black Canyon, about 20  
km <sup>southeast</sup> ~~south~~ of  
Moab, Utah. Twp 115., R. 25 E.  
15-16. Elev. ca. 1800 m.  
Herb to yellow. Fls. May 8-15,  
most often 8 or 13.

Hymenoxys occidentalis (Fursh)  
K.T. Parker  
var. caespitosa (A. Nels.)

K.T. Parker

7-15

Hymenoxys occidentalis.

(7)

11.0 27 May, 1976.

Uintah Co., Utah

Same place as 151

Flowers lavender.

*Astragalus pubentissimus*

Titgr.

det. R.C. Barneby



*Astragalus* D

11461-27 May, 1976. Uintah  
Co., Utah. Lampranthus

11459. Lampranthus.  
Leaves shallowly channeled or nearly  
flat above, crowded  
below.

Allium textile Nels.

Macbr.

Allium textile ②

11462 - 27 May 1976.

Utah Co., Utah.

Shaly slopes and scree  
with sagebrush,

ca. 15 km. southeast  
of Blanding.

south east

south of Blanding.

Twp. 10 S., R. 2 E. +

S. 23-33. Elevation just under

13,000 ft. Flowers lavender.

Penstemon comarrhenus A. Gray

det. Noel H. Holmgren

Penstemon (10)

11463-27 May, 1976.

Madala Co., Idaho

Same place as 11462

Astragalus chamaeleuce

A. Gray

det. R. C. Barneby

Astragalus(?)

11464 - 27 May, 1976

Utah Co, Utah.

Barren, shaly knolls in  
sagebrush zone ca. 1<sup>2</sup>  
hrs. air line southeast of  
Bonneville, Twp. 105, R. 25 E.,  
S. 29. Elev. ca. 1750 m.

Plants mostly single stem  
woody and sometimes branching  
at base. Corolla white  
with green center. Corolla  
the limb narrower at tip.  
flat

*Cryptantha rollinsii* I.M. Johnst.

*Cryptantha* (1)

11465-27 May, 1976

Uintah Co., Utah, same

place as above. Deep-rooted,  
colonial perennial,  
presumably creeping  
below ground. Perianth  
rich pink to pale  
pink-lavender. Plant  
succulent. Leaves, <sup>if</sup>  
glaucescent.

Hermidium alipes S. Wats.  
var. pallidum C. L. Porter

Vegetation. (4)

11466 - 28 May, 1976.

Uintah Co., Utah.

On open, shaly slopes,  
with sagebrush, ca 2 km.  
north of Blanding.  
Twp 9 S., R. 24 E., S. 14.

Flowers greenish under 1600  
m. Flowers blue to  
blue-purple.

✓

Penstemon fremontii Torr. & Gray  
det. Noel H. Holmgren

✓

Penstemon

8

11467-28 May, 1976.

Yampa Co., Colo.

Same place as 11466.

Flowers pink-purple.

*Astragalus mollissimus*

Torr.

var. *thompsoniae* (S. Wats.)

Barneby

det R. L. Barneby

Det. 1976 (B)

11468 - 28 May 12716,

Minnehaha Co., Minnesota

Same place as 11466.

Plants monocapic,  
but perhaps living 3  
years. The old culms no  
longer in flower. Corolla  
white without with a  
yellow throat. Plants  
very slightly pubescent.

*Gilia stenothrys* A. Gray

V

V

*Gilia* agg. white ⑩

11469-28 May, 1976  
with scattered junipers  
and sagebrush on barren  
clay knolls just north  
of Deadman Bench  
Divide, ca. 20 km.  
on a line northeast  
of Bonanza. Twp. 75,  
R. 25 E., S. 22. elev.

ca. 1700 m. Leaves  
conspicuously bluish-  
argentaceous. Corolla  
white with a yellow  
eye. Nutlets muricate or bursa.  
*Cryptantha breviflora* (Osterh.)  
*Cryptantha* (10) Payson

11470 - 28 May, 1976

Minakab 'o' Atolu

Parryaceae no 469.

Flowers white with  
a yellow eye.

Nutlets strongly  
rugose-reticulated on with  
sides bent with an elevated  
border, slightly constricted  
below the middle.

✓  
*Cryptantha flavoculata*  
(A. Nels.) Payson

Greener Cryptantha.

5

4

11471-28 May 1976.

Gintala Co. Iloilo

Same place as 11467.

Flowers white.

Plants somewhat mespistic.

*Gilia congesta* Hook.

var. *congesta*

Gilia

(12)

11472 - 28 May, 1956

Clinton Co., W. Va.

Same place as 11459  
Flowers purple

*Astragalus spatulatus*

Sheld.

var. *spatulatus*

det. R.C. Barneby

✓

*Astragalus* (3) 821

11473-29 May, 1976

Mineral Co., Utah

Barren red clay slopes

along the ~~southeast~~ side.

Antelope Draw  
f. ~~Barren~~, ca 80' 75 km

airline west of Blanding.

Top. S 5, R. 22, S. 15.

Elev. ca 1450<sup>1450</sup> m. Flowers

trinerves, dull olive  
green.

Eriogonum salsuginosum (Nutt.)

Hook.

Polygonaceae (12)

11474 - 29 Aug. 1976

Mintab Co., Utah

Same place as 11473

Carolla 1 in. b.

Blue lavender, the

front eight yellow

Phacelia demissa A. Gray

✓

Phacelia (3)

11475-29 May, 1926.

Minnehaha Co., Minn.

Same place as 11473.

Flowers yellow.

Oenothera scapoidea T. & G.  
var. scapoidea

Oenothera 6

11476 May, 1976

Alvaton Co., W. Va.

Specimen placed 11473a

Allium textile Wet. &

Wash. ✓

Allium textile ③

11477 - 29 May, 1976

Utah Co., Utah

Sandy clay benches, with (Glen Bench)

Sarcobatus, ~~Grass~~, <sup>Grass</sup>, ~~stripes~~,

Tetradymia, etc., shortly

south of Coyote Wash,

24<sup>24</sup> m. a.s.l.

west of Bonanza Ranch S.,

N 22° E., S. <sup>15</sup> E., Elevation <sup>1500</sup> 42 m.

Flowers white, the marginal  
ones slightly enlarged.

✓  
*Chaenactis glabriuscula* (10)

*Chaenactis* (10)

15.29 May  
1976. Uintah Co., Utah  
Same place as 1977.  
Flowers white.

Maturing nutlets all  
alike, longer than the  
style, with scattered  
small tubercles dorsally,  
less so ventrally.

*Cryptantha ambigua* (A. Gray)  
Greene

*Cryptantha*. (10)

11479. 29 May, 1976

Uintah Co., Utah.

Sandy clay <sup>(Glen Bench)</sup> beach with  
*Sarcobatus*, *Grayia*,  
*Atriplex*, etc. -- as in

11422. Openly branched  
shrub to ca. 6 dm. tall.  
Flowers bright yellow.

Tetradymia spinosa Hook. &

Arn.

Tetradymia ④

11050-29 May, 1976.  
Piute Co., Utah. In  
the sandier parts of  
 sandy clay terrace (6<sup>10</sup> feet  
~~slope~~ Slightly south  
 of Cogde wash and ca.  
 24<sup>25</sup> km. airline <sup>northwest</sup> of  
 Bonanza, with some  
 batis, ~~Erys~~, <sup>Gravia</sup>, Tetradymia,  
 etc. 1 up 85., R. 22E.,  
 S. 14. Elevation <sup>1500</sup> ca. ~~4500~~ m.

Flowers yellow. Pappus  
 wholly deciduous.

Malacothrix sonchoides (Nutt.)

Malacothrix (2) T. 86

11481 - 29 May 1974

Uintah Co., Utah Barren

rocky clay knolls ca. 17

km. airline west of Raway.

Twp. 9 S., R. 22 E., S. 24

Elev. ca. 1500 m. Plants

colonial by more or less  
deep-seated creeping roots.

Heads yellow. Rays

6-15, often 13.

Bahia nudicaulis A. Gray

Bahia nudicaulis (6)

11-182-29 May, 1936

Same place as 11481.  
Rays white to pink,  
8-17, often 13.

Townsendia strigosa Nutt.

Townsendia

10

5 1

11483 - 29 May, 1976

Minotah Co., Utah. Basin

Clay hills ca 15 km.  
airline west of Bausysa.

Twp. 9 S., R. 23 E., S. 30.

Elev. ca 1500 m. Fls.

2-44 white to pale

2nd collection

*Erigeron pulcherrimus* Helle

var. *wyomingia* (Rydb.) Eng.

*Erigeron* p. *wyomingia*

⑨

11484-30 May, 1926.

Uinta Co., Utah. Found  
the borders of a small,  
alkaline, somewhat alkaline  
and sand in the  
desert ca 11 km. and one  
west of Parowan, Utah.  
15, R. 23E., S. 22. Elevation  
ca 1500 m.

*Eleocharis palustris* L.

Eleocharis ⑩

11485-30 May, 1936.

Uintah Co., Utah.

Same place as 11484. Rhizome  
producing very hard tubers.  
Stem sharply triangular.  
The same species growing  
much robustly (6 dm tall  
and more) in highly al-  
kaline seep below the mtn.

*Scirpus maritimus* L.

var. *paludosus*

(A. Nels.) Kuekenthal

✓

*Scirpus* (15)

11436 - 30 May, 1976.  
Minot Co., Idaho  
Clay slopes <sup>along Minot's Creek</sup> in juniper woodland shortly  
south of Cliff Ridge  
and ca. 40 km east  
east-southeast of Vernal.  
Elev ca. 1800 m.

Stems solitary. Herbage  
strongly glaucous. Petals  
atropurporous, with  
pale margins

Twp. 55., R 25E., s. 33  
*Caulanthus crassicaulis* (Torrey)  
S. Watson

*Caulanthus* (10) ✓

11487 30 May, 1976

Uintah Co., Utah.

Same place as 11486.

Stems solitary. Flowers yellow. Fruits mostly suberect, owing to sometimes more or less widely spreading.

*Erysimum asperum* Nutt.,

sens. lat.

*Erysimum caput-v. (10)*

11453 - 30 May, 1976

Uintah Co., Utah

Same place as 11453.

Plants puberulent  
- cespitose. Flowers  
white, the banner  
with lavender guide-  
lines.

*Astragalus spatulatus*  
Sheld.

var. *spatulatus* +  
det. R. C. Barneby

*Astragalus* ⑧

11489 - 30 May, 1976

Utah Co., Utah

Same place as 11486.

Flowers yellow.

✓  
*Physaria australis*  
(Payson) Rollins

*Physaria* ⑧

94°

31  
11490 - 30 May, 1976

Uintah Co., Utah

Pinyon-juniper wood-  
land near the base of  
Cliff Ridge, ca. 40 km.  
airline east-southeast  
of Vernal. Elev. ca. ~~ca.~~ 1900  
m. Twp 5 S., R. 25 E.

S. 27.

Plants repulsive, mostly  
biennial, sometimes  
blooming twice.

Corolla scarlet.

Gilia aggregata (Pursh) ~~Spreng.~~

Gilia aggregata (10) Spreng.

11491-31 May, 1976

Uintah Co., Utah.

Rocky gravelly hillocks  
Miner's Draw, in pinyon-juniper zone  
elevation ~~lower~~ shortly  
south of Cliff ~~ridge~~

Ridge and ca. 40 km.

airline east-southeast

3 Vernal. Twp 5 S., R. 25 E.,

S. 27. Elevation ca. 1850 m.

Stems clustered and tapering  
and branching considerably.

Heads yellow, with ~~yellow~~  
10-14 rays.

*Hymenoxys richardsonii* (Hook.)  
Cockerell

var. *richardsonii*

*Hymenoxys* ⑧

11492 31 May 1926

Mineral Co., Utah.

Leafy-leaf species in  
pinyon-juniper wood-  
land along ~~a draw~~  
<sup>Miner's Draw,</sup>

shortly south of Cliff  
Ridge and ca. 40 km.  
airline east-southeast

Floral. Twp. 5 S. R. 5 E.  
S. 27. Elev. ca. 1850 m.  
Very yellow.

✓

*Crepis occidentalis* Nutt.  
var. *occidentalis*

*Crepis* ③

11493 31 May, 1976  
Uintah Co., Utah. On  
barren gray clay slope  
in piñon-juniper zone  
<sup>Miners, Draw</sup>  
along ~~draw~~ shortly  
south of Cliff Ridge and  
ca 40 km. airline  
east-southeast of  
Vernal, Twp. 55, R. 25 E. S 24.  
Elev. ca. 1850 m. Plants  
colonial, with long, slender,  
subterranean culms.  
Flowers lavender  
*Vicia americana* Muhl. ex Willd.

*Vicia*

(10)

~~H-11494~~ 31 May 1926

Emitah Co., Utah.

Pinyon-juniper woodland  
along the base of Cliff  
Ridge, ca. 4300 m. east  
- southeast of Vernal.

Twp. 55., R. 25 E., S. 27.

Elev. ca. 1900 m. Rays  
8-14, often 11 or 13, pinkish  
beneath, nearly white  
above.

*Townsendia incana* Nutt.

*Townsendia* ④

11495 31 May, 1946

Clinton Co., Colo. Rockies

sagebrush openings in  
pinyon-juniper woodland  
slightly south of Cliff  
Ridge and ca. 40 km.

Aeroline East-southeast  
of ~~Great~~ Vernal.

Fls. mostly 18-24,  
white.

Twp. 55, R. 25 E S. 27 E.

Elev. ca. 1850 m.

Machaeranthera venusta J.

(M. E. Jones) Cronq. & Keck

Machaeranthera (3)

11496 - 31 May, 1926.

Blaine Co., Idaho.

Piney - juniper woodland  
along Miner's Draw,  
about 1/2 mile S. of Ch. 11  
ridge and ca. 40 km.  
east-southeast of Bonavil.

Twp. 5 S., R. 25 E., S. 33.

Elev. ca. 1800 m.

Stems few, widely  
ascending. Flowers  
yellow.

*Lesquerella rectipes* Wooton

Standley

*Lesquerella* (10)

11497 - 31 May, 1976.

Minotah Co., Utah.

Same place as 11496.

Herbage strongly  
glaucous. Flowers  
blue to lavender-purpl.

Penstemon osterhoutii

Pennell

det. Noel H. Holmgren

Penstemon (1) 1202

1149 31 May, 1926.

Utah Co., Utah around  
the base of barren clay  
~~slope~~ slopes in canyon  
Juniper woodland just  
south of Cliff Ridge and  
ca 1300 m. altitude east  
- west of Laramie  
Twp 5 S., R. 25 E., S. 33.

Elev. ca. 1800 m.

Flowers blue.

*Lupinus brevicaulis* S. Wats.

annual lupine (10)

11499-31 May, 1926.

Uintah Co., Utah.

Basan clay slopes  
near head of creek south  
of Cliff Ridge and ca. 40  
km. air line east-southeast  
of Vernal. Twp. 5~~6~~, R. 35E.  
S. 33. Elev. ca. 1812 m.  
in piñon-juniper zone.

Plants & shrubs, mostly clumped,  
sprouting freely below  
parent stems yellow, now  
all post-mature.  
*Thermopsis rhombifolia* Nutt.

*Thermopsis*?

(10)

11500 31 May, 1976.

Clinton Co., W. Va.

Scattered in pinions -

pinon woodland  
along Miner's Draw,  
at base of south of Cliff  
Pine and western  
ridge east-south east  
T. Level. Top 55, R. 25 E.,  
S. 33. Elev ca. 1800 m.

edge of glacial. Hills  
are purpleish

✓  
*Streptanthus cordatus*

*Streptanthus* (3)

11501-3, May, 1976.

Utah Co., Utah. On  
barren clay slopes of a  
knoll in piñon-juniper  
zone just south of Hill  
Ridge, and ca. 40 km.  
SW of East-southeast of  
Vernal. Twp. 55, R 25 E.

S. 33. Elev. ca. 1800 m.

Petals white. Anthers yellow  
filaments conspicuous,  
yellow.

*Arennaria eastwoodiae* Rydb. <sup>11</sup>

var. eastwoodiae

*Arrenaria* (7)

11503. 1 June, 1936

Mineral Co., Idaho

In Dry wash, in pinyon  
- juniper woodland

shortly south of Cliff  
Ridge and ca 40 km.  
airline East-southeast  
of Herat. Top. 58, N. 25E.

S. 33. Ele. ca 1800m.  
Rock-capped shrub ca  
2 dm tall. Stems full  
white, inconspicuously  
marked with anthocyanin.  
*Leptodactylon pungens* (Torr.)  
Nutt.

*Leptodactylon* sp. (?)

11503 - 1 June, 1976

Utah Co., Utah.

In open piñon-juniper  
along Miner's Wash,  
just east of mouth  
of Little Horse and ca 40  
km. airline east of ghost  
of Vernal. Top 5500 ft.  
S. 33. E. 1800 m.

Flowers white,  
withering pink

*Oenothera trilobata* (Nutt.)  
ex T. & G.

*Oenothera*

37

11504 - 1 June 1976

Mintah Co., Utah. In  
~~sage~~ - juniper woodland  
on a broad low-ridge  
shortly south of the east  
end of Cliff Ridge, ca 45  
km. air line east-southeast  
of Moab and <sup>less than</sup> 1 km. west  
of the Colorado state line.

Elev. ca. 2000 m.

Top. 5 S., R. 852., S. 25.

Plants forming loose, mats  
rooted mats ~~on~~ on the ground.

Flowers blue. *Pentstemon caespitosus*  
Nutt. ex A. Gray

det. H. C. Hiltner  
*Pentstemon* ⑨

11505, June 1976

Hinton Co., Wyo. Same  
place as 11504. Flowers  
yellow. Corolla lobes  
erose and crisped-twisted.

Lithospermum incisum Lehmann

Lithospermum ⑩

11506 1 July, 1976

Uintah Co., Utah

Open sagebrush mesa  
toward the head of

Sturtz Draw, on the  
Yampa Plateau,

~~at~~ less than 1 km.  
from the Colorado

state line. Twp. 4S,  
R. 25E., S. 25. Elev. ca.

2300 m. Flowers 5-35;  
tepals white with a  
purple midrib

*Allium brandegei* S. Wats.

*Allium brandegei* (D)

11507 1 June, 1976

Same same place  
as 11506 Herbage  
slightly glaucous.  
Flowers white.

*Thlaspi* (1)

11508 1 June, 1976.

Replace as 11506

Flowers deep blue,  
the upper petals paler,  
with blue veins.

Delphinium nuttallianum

Pritzel ex Walpers

Farhey ③

1909 1 June 1976.

Glenvale, Utah.

Same place as 11506.

~~Flowers blue~~

Corolla blue,  
glabrous within

Mertensia oblongifolia  
(Nutt.) G. Don

Mertensia ⑯

11510 June 1976

Minot Co., Idaho.

Same place as 11506.

Corolla white with a  
light yellow eye.

✓

Gymnosteris parvula Heller

7

Gymnosteris parvula ①

11511-1 June 1976  
Uintah Co., Utah.  
Same place as 11506.

1

Ranunculus glaberrimus Hook.  
var. ellipticus Greene

Ranunc. glaber. (4)

11512 - 1 June 1976

<sup>Clinton - 1976</sup>  
With scattered pines and  
pines atop Cliff Ridge,  
a. 40 km. airline east-  
southeast of Keweenaw.

Top. 55. Rad. 5.21.

Alt. ca. 2400 m.

Colonial law st. 10

Stems forming a dense

grass 3-6 dm. tall

Leaves bright green

Leaves pink

*Arctostaphylos patula* 1110

*Arctostaphylos* 1110

11515-2 June 1926.

Uintah Co., Utah.

Sagebrush table-land  
shortly northeast of  
Jeff Ridge, and ca. 40+  
km. east-northeast of  
Vernal. Top. 55, R. 25 E.,  
~~ex S. 21 S. 25~~, S. 10 or 15.  
Elev. ca. 2300 m.

Petals white; anthers  
yellow. Developing  
fruits with allament.

*Lomatium nevadense* (S. Watson)

Coult. + Rose

Wiesen? (4)

11514-2 June 1976

Clintah Co., Utah.

Same place as 11513.

Flowers white, with  
a trace of anthocyanin

*Trifolium gymnocarpon* Nutt.  
var. *gymnocarpon*

Trifolium 10

11515-2 June, 1972  
Blount Co., UT

Sagebrush table land of Blue  
Mountain Plateau, ca 5 km  
north of the more easterly  
part of Cliff Ridge, and  
ca. 45 km. air line.

east-southeast of Vernal

5.10, 11, 12, 13, 14, 15

Twp 55 R. 25E. ~~ca 5.15~~

Elev. ca 2300 m.

Corolla rich pink-purple;  
filaments & tube yellow;  
anthers atropurpureous

Dodecatheon pauciflorum

(Durand) Greene

Dodecatheon (10)

11516 2 June, 1976

Uintah Co., Utah

Same place as 11515

Petals 8-10 pure white.

Stigmas 5-7.

*Lewisia pygmaea* (A. Gray)

B. L. Robinson

*Lewisia* (4)

11517 2 June, 1976

W. Hott Co., Colorado.

Gravelly sandstone  
tableland shortly north  
west of ~~the~~ Stunty  
Reservoir, on the Yampa  
Plateau, scarcely 1/2 km.  
from the ~~the~~ ~~the~~ base  
Twp. 6 N. R. 12 W. S. 35.  
Elev. ca 2300 m. petals  
light yellow. Specimens (5)

Ivesia gordonii (Hook.)

T. H. G.

Ivesia (?)

1145

F. H. S., 6172, 5.22

at 5000 ft.

Myton is 35, 2 mi. S. 25°

Such a lot of trees, but  
above ~~the cliff~~ Coal  
Cliffs is a desert.  
There is ~~nothing~~ ~~nothing~~  
with very green ground  
for miles here. These  
of the sterile shrub-cultiv.  
or sometimes peninsular  
5' high have the stems  
definitely pinnatifid. Quid?  
A pinnatifide?

5931  
34  
35  
39  
40 46

5137

Bunyanziori 9S, R 24E, S23

Cliff Ridge Camp

55, 25E, S. 33, NE  $\frac{1}{4}$  of  
NE  $\frac{1}{4}$ . 1974. 82M.

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et. 2582 |  
June 14-15 |

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